

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243265

Luminaire Tested: S122RDRP-H865D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-H865D840-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

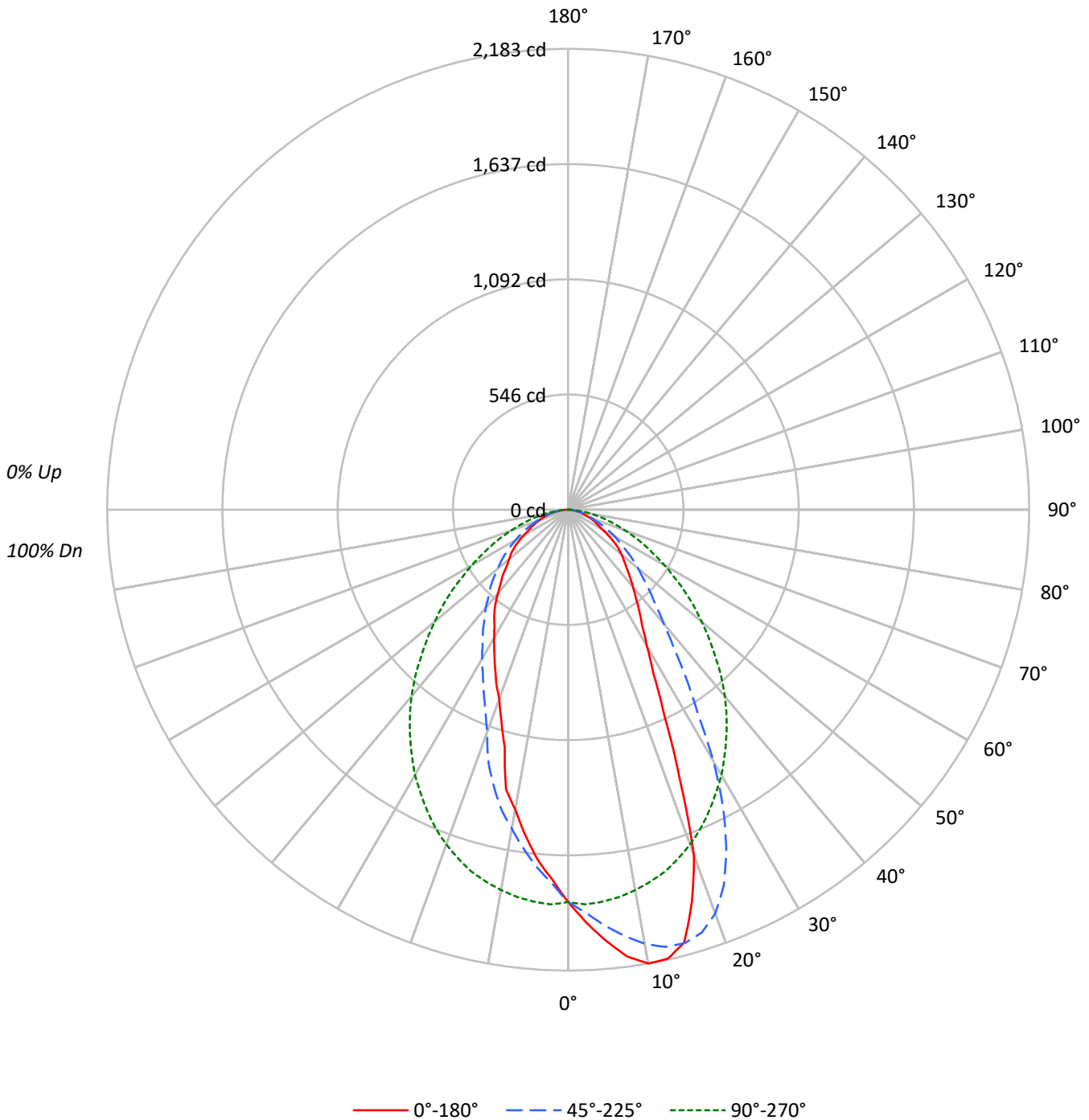
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3131.5 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	65	61	69	64	60					58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54					52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49					47				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44					42				
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40					38				
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37					35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34					33				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	35393	35393	35393	35393	35393
5°	39178	37807	35633	32516	31807
10°	42219	40383	35385	29693	27894
15°	41845	41928	34975	26785	22924
20°	35296	41262	34200	22751	19350
25°	22694	37236	33148	19909	17225
30°	16395	30196	31920	17932	15431
35°	13656	22607	30382	16372	14194
40°	11853	17522	28694	15103	12850
45°	10581	14676	26550	14053	11761
50°	9764	12775	24450	12899	10810
55°	8764	11025	22333	12035	10298
60°	6994	9707	20107	10933	9265
65°	6414	8248	18060	10028	8550
70°	5892	6806	15950	8905	8125
75°	5372	6086	13961	8456	7698
80°	4673	5331	11605	7733	7207
85°	3715	4393	9310	7037	6644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 35148 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.9	5.6
10°-20°	481.2	15.4
20°-30°	606.6	19.4
30°-40°	582.3	18.6
40°-50°	501.6	16.0
50°-60°	383.5	12.2
60°-70°	244.0	7.8
70°-80°	123.7	3.9
80°-90°	32.6	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1263.7	40.4
0°-40°	1846.1	59.0
0°-60°	2731.1	87.2
0°-90°	3131.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3131.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1858	1858	1858	1858	1858	
5°	2049	1977	1864	1701	1664	200
15°	2122	2126	1774	1358	1162	575
25°	1080	1772	1577	947	820	516
35°	587	972	1307	704	610	370
45°	393	545	986	522	437	306
55°	264	332	672	362	310	233
65°	142	183	401	222	190	142
75°	73	83	190	115	105	77
85°	17	20	43	32	30	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1
2.5°	1956.6	1959.0	1960.2	1957.2	1950.5	1951.1	1945.0	1934.7	1921.9	1910.4	1917.1
5°	2049.0	2052.0	2051.4	2046.0	2039.3	2033.2	2022.9	2008.3	1993.1	1977.3	1974.2
7.5°	2134.1	2140.8	2139.0	2128.6	2123.8	2115.3	2097.6	2081.2	2058.1	2035.6	2026.5
10°	2182.8	2188.2	2185.2	2182.8	2177.3	2168.8	2153.0	2137.2	2111.6	2087.9	2074.5
12.5°	2179.1	2184.0	2186.4	2188.8	2187.0	2184.0	2177.3	2163.9	2143.2	2121.3	2104.3
15°	2122.0	2114.1	2108.6	2123.8	2129.3	2149.9	2154.8	2156.6	2142.6	2126.2	2122.0
17.5°	1948.1	1950.5	1992.5	1985.8	1994.9	2045.3	2065.4	2092.8	2104.3	2100.7	2108.0
20°	1741.3	1712.8	1733.4	1763.8	1792.4	1866.0	1914.6	1957.8	2007.7	2035.6	2062.4
22.5°	1381.4	1382.0	1431.9	1481.7	1546.2	1625.8	1700.0	1782.7	1871.5	1925.6	1988.2
25°	1079.8	1109.0	1130.9	1152.8	1246.4	1323.0	1446.5	1546.8	1669.0	1771.7	1876.9
27.5°	873.1	903.5	907.2	956.4	1011.7	1073.7	1154.6	1312.7	1437.9	1588.7	1718.8
30°	745.4	751.5	764.3	777.0	817.8	875.5	962.5	1061.6	1200.8	1372.9	1547.4
32.5°	653.0	651.8	664.6	684.6	707.1	746.0	795.3	877.4	1003.2	1140.0	1343.7
35°	587.3	585.5	594.6	601.9	615.3	646.9	691.3	745.4	836.0	972.2	1130.3
37.5°	525.3	529.0	534.4	542.3	560.0	580.0	609.8	654.8	726.6	816.6	968.0
40°	476.7	480.9	487.0	492.5	505.9	522.3	542.3	578.2	626.3	704.7	820.8
42.5°	432.9	434.7	439.6	447.5	457.2	471.8	491.3	518.6	558.8	613.5	715.0
45°	392.8	392.8	398.2	405.5	411.6	425.6	440.8	467.0	498.0	544.8	617.1
47.5°	358.7	359.3	362.4	363.6	370.3	383.0	399.5	420.1	445.7	481.5	549.0
50°	329.5	332.0	333.2	335.0	337.4	344.1	355.7	371.5	399.5	431.1	476.1
52.5°	299.1	302.2	304.6	308.3	311.9	312.5	321.0	331.4	350.8	383.7	420.1
55°	263.9	266.3	271.2	274.2	279.1	283.3	290.0	297.3	310.1	332.0	369.7
57.5°	223.7	224.4	229.2	232.3	242.0	251.7	257.8	265.7	274.8	290.0	318.6
60°	183.6	185.4	186.1	188.5	197.0	207.3	219.5	231.7	241.4	254.8	274.8
62.5°	161.7	162.3	164.2	166.6	167.2	172.1	175.7	190.3	207.3	220.7	234.1
65°	142.3	142.9	142.9	144.7	147.1	149.6	151.4	156.9	164.2	183.0	199.4
67.5°	124.0	123.4	124.6	126.5	127.1	128.9	131.9	135.0	139.8	145.3	162.3
70°	105.8	105.8	105.2	107.0	108.8	109.4	111.3	114.3	117.3	122.2	127.7
72.5°	87.6	88.8	88.8	90.0	90.6	93.0	94.2	95.5	99.7	102.1	106.4
75°	73.0	72.4	74.2	73.6	74.8	75.4	77.2	79.0	80.3	82.7	86.3
77.5°	58.4	57.2	58.4	57.8	59.0	60.2	60.2	62.0	63.2	65.7	67.5
80°	42.6	42.6	43.2	44.4	44.4	45.0	46.2	45.6	48.0	48.6	50.5
82.5°	29.2	29.8	29.8	30.4	30.4	30.4	31.6	31.6	32.2	33.4	34.0
85°	17.0	16.4	17.0	17.0	17.0	17.6	18.2	17.6	18.8	20.1	20.1
87.5°	4.9	4.9	5.5	6.1	6.1	6.7	6.7	6.7	7.3	7.3	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1
2.5°	1917.1	1914.0	1906.1	1898.8	1885.4	1874.5	1870.8	1871.5	1855.0	1838.0	1833.2
5°	1970.0	1959.0	1943.2	1926.8	1906.7	1886.7	1873.9	1863.6	1838.0	1812.5	1797.9
7.5°	2013.7	1996.1	1973.0	1946.9	1920.7	1890.9	1870.2	1850.8	1815.5	1780.9	1762.0
10°	2053.9	2028.9	1997.3	1963.3	1928.6	1889.7	1859.9	1829.5	1785.1	1746.2	1714.0
12.5°	2092.2	2052.6	2020.4	1971.2	1932.9	1880.0	1839.2	1804.0	1751.7	1703.0	1667.2
15°	2095.8	2067.8	2024.7	1973.6	1915.2	1866.0	1814.9	1773.6	1714.0	1659.9	1598.5
17.5°	2095.2	2073.3	2028.3	1976.0	1906.1	1841.7	1786.3	1732.2	1664.1	1600.9	1548.0
20°	2073.3	2058.1	2019.2	1957.2	1886.7	1812.5	1751.1	1687.2	1607.6	1542.5	1484.8
22.5°	2021.6	2025.3	1994.9	1939.6	1863.6	1780.9	1709.7	1636.2	1554.7	1479.9	1406.9
25°	1934.1	1973.0	1963.9	1912.2	1831.3	1740.7	1659.9	1577.2	1489.6	1410.0	1342.5
27.5°	1825.2	1898.2	1914.0	1873.9	1796.7	1695.1	1603.3	1513.3	1424.0	1338.2	1268.9
30°	1696.4	1805.2	1845.3	1823.4	1752.3	1645.9	1539.5	1451.3	1353.4	1262.2	1189.3
32.5°	1534.0	1686.6	1757.2	1763.8	1705.5	1591.2	1473.2	1378.4	1278.0	1191.7	1113.3
35°	1352.8	1540.1	1655.0	1686.0	1644.1	1531.0	1406.9	1306.6	1199.6	1112.7	1033.6
37.5°	1170.4	1390.5	1541.3	1601.5	1573.5	1464.1	1332.8	1231.2	1125.4	1036.7	962.5
40°	1002.6	1211.8	1407.5	1501.8	1493.3	1391.7	1259.2	1154.0	1046.4	964.3	882.8
42.5°	852.4	1054.3	1269.5	1396.0	1402.7	1313.9	1178.3	1072.5	969.2	887.7	802.6
45°	733.9	911.4	1124.8	1275.6	1304.8	1231.8	1094.4	985.6	891.3	814.7	729.6
47.5°	639.0	777.0	975.2	1152.2	1203.9	1140.0	1008.7	905.3	816.6	750.9	670.6
50°	556.9	686.4	854.9	1018.4	1094.4	1046.4	923.6	825.1	744.8	681.6	611.1
52.5°	484.0	584.3	730.2	887.1	989.2	945.5	840.9	750.3	674.9	615.9	556.9
55°	423.8	507.7	636.6	776.4	870.7	846.4	753.3	672.5	606.2	550.2	502.2
57.5°	361.8	432.3	536.3	660.9	753.3	749.7	673.1	595.2	543.0	490.1	455.4
60°	307.7	364.8	449.3	555.1	648.1	648.7	589.2	527.8	482.8	437.2	404.3
62.5°	259.6	305.2	378.8	463.9	538.1	556.9	512.6	459.0	422.6	387.3	359.3
65°	218.3	252.3	307.7	384.9	443.2	468.8	439.6	400.7	370.3	338.7	313.7
67.5°	180.0	204.9	245.6	306.4	364.8	383.7	371.5	341.7	319.8	293.7	274.8
70°	141.7	162.9	191.5	237.1	285.2	311.3	307.7	286.4	268.1	249.3	231.7
72.5°	112.5	124.6	146.5	179.4	217.7	246.9	248.1	237.1	221.9	206.1	194.6
75°	90.6	96.1	106.4	131.9	162.3	186.7	195.2	189.7	177.5	167.8	159.9
77.5°	69.9	74.8	81.5	93.6	117.3	136.2	146.5	147.1	139.8	131.3	125.3
80°	52.3	54.1	59.0	65.1	77.2	93.6	105.8	105.8	101.5	97.3	93.6
82.5°	35.9	37.7	40.1	43.2	49.2	59.0	69.9	71.7	69.3	68.1	63.2
85°	20.1	21.9	23.1	24.9	27.4	32.2	40.1	42.6	43.2	39.5	37.1
87.5°	7.9	7.9	8.5	9.1	9.7	11.6	14.6	18.2	18.2	16.4	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1	1858.1
2.5°	1827.1	1818.6	1807.6	1797.9	1784.5	1771.1	1768.7	1773.6	1774.8	1768.7	1770.5
5°	1783.9	1768.1	1754.7	1732.8	1718.8	1700.6	1688.4	1688.4	1688.4	1679.3	1670.8
7.5°	1738.9	1717.6	1692.1	1671.4	1642.8	1619.1	1607.6	1602.1	1591.2	1582.0	1571.7
10°	1686.6	1656.8	1625.2	1593.0	1568.1	1535.2	1515.8	1503.6	1484.8	1476.9	1461.7
12.5°	1625.2	1595.4	1557.1	1504.8	1497.5	1457.4	1430.0	1407.5	1384.4	1365.6	1358.9
15°	1576.0	1524.3	1473.2	1436.1	1382.0	1358.3	1318.2	1314.5	1295.7	1240.3	1197.2
17.5°	1496.3	1450.1	1393.6	1352.2	1309.0	1256.2	1213.6	1171.6	1131.5	1092.6	1091.4
20°	1425.8	1371.7	1318.2	1273.2	1197.8	1122.4	1096.2	1057.9	1034.2	1003.2	994.1
22.5°	1348.6	1292.0	1225.1	1159.5	1071.3	1023.9	995.3	964.9	941.2	927.2	913.2
25°	1270.7	1214.2	1125.4	1044.6	984.4	947.3	923.0	890.1	873.1	860.9	842.7
27.5°	1194.7	1123.0	1029.4	964.9	916.3	874.3	852.4	825.7	806.8	791.0	779.5
30°	1119.3	1020.9	941.2	891.3	841.5	815.3	786.8	766.7	752.7	738.1	719.3
32.5°	1036.7	933.3	881.6	820.2	791.0	753.3	732.7	712.0	693.7	683.4	676.7
35°	940.6	857.3	811.1	766.1	729.0	704.1	674.9	662.1	652.4	632.3	623.8
37.5°	859.1	798.9	750.3	710.2	676.1	649.4	636.0	614.1	600.1	593.4	584.3
40°	791.6	738.1	696.2	655.4	626.9	607.4	583.7	572.1	553.9	547.2	539.9
42.5°	733.3	684.0	640.2	609.2	584.3	557.5	545.4	525.9	518.0	501.6	495.5
45°	674.3	630.5	592.2	561.8	538.1	521.7	499.8	487.6	473.6	465.1	448.7
47.5°	615.3	576.4	544.8	519.2	498.6	478.5	460.3	449.9	432.3	423.2	414.7
50°	569.7	532.0	502.2	476.7	455.4	435.3	423.8	406.8	391.0	380.6	377.6
52.5°	515.6	482.8	455.4	435.9	414.7	400.1	384.3	365.4	357.5	347.2	344.7
55°	467.6	440.8	417.7	397.0	378.8	362.4	344.1	330.8	324.7	319.8	316.2
57.5°	422.6	397.0	375.8	356.9	341.1	324.1	308.9	301.0	295.5	290.0	286.4
60°	378.2	355.1	335.6	319.8	303.4	287.0	276.0	269.3	265.1	257.2	254.8
62.5°	338.7	317.4	297.3	282.7	267.5	254.8	245.6	236.5	229.8	223.7	211.0
65°	295.5	276.6	261.4	246.9	232.3	222.5	212.2	201.9	193.3	193.3	193.3
67.5°	257.2	240.8	225.0	212.2	199.4	187.9	177.5	176.9	173.9	172.7	170.9
70°	218.3	206.7	192.1	178.1	165.4	159.9	158.1	155.0	151.4	150.8	148.4
72.5°	183.0	169.6	156.3	144.1	141.7	139.2	135.6	132.5	130.1	128.3	127.1
75°	149.6	136.2	125.3	122.2	119.2	114.9	111.9	109.4	108.2	108.2	107.6
77.5°	114.3	106.4	101.5	96.7	94.2	91.8	90.0	88.8	86.9	87.6	86.3
80°	83.9	81.5	77.2	74.2	73.0	70.5	69.3	68.7	67.5	67.5	66.9
82.5°	60.2	55.9	54.1	52.3	51.1	49.9	50.5	49.9	49.2	48.6	49.2
85°	34.7	34.0	32.8	32.8	32.8	32.2	32.2	32.2	31.6	31.0	31.0
87.5°	15.2	15.8	15.8	14.6	16.4	16.4	15.8	15.8	15.2	16.4	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P243265

CATALOG NUMBER: S122RDRP-H865D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1858.1	1858.1	1858.1	1858.1
2.5°	1762.6	1762.0	1758.4	1752.3
5°	1667.2	1664.7	1658.7	1663.5
7.5°	1565.0	1558.3	1552.3	1555.3
10°	1455.6	1453.1	1449.5	1442.2
12.5°	1334.6	1344.3	1334.0	1357.1
15°	1155.2	1198.4	1144.3	1162.5
17.5°	1065.8	1066.5	1059.2	1050.6
20°	981.9	960.7	968.6	954.6
22.5°	901.1	896.2	893.8	888.9
25°	828.7	819.6	816.6	819.6
27.5°	775.2	771.0	759.4	757.6
30°	708.3	706.5	702.9	701.6
32.5°	666.4	658.5	656.7	649.4
35°	619.6	615.3	612.3	610.4
37.5°	572.7	570.3	564.8	567.9
40°	534.4	522.3	517.4	516.8
42.5°	492.5	485.8	476.1	473.0
45°	443.8	440.8	437.8	436.6
47.5°	401.3	399.5	395.8	394.0
50°	370.9	366.0	365.4	364.8
52.5°	341.7	339.9	338.1	340.5
55°	314.3	311.9	310.1	310.1
57.5°	284.5	280.3	276.6	277.3
60°	249.9	247.5	244.4	243.2
62.5°	209.8	209.8	209.2	209.2
65°	190.9	189.7	189.1	189.7
67.5°	170.2	169.0	167.2	167.8
70°	146.5	145.9	146.5	145.9
72.5°	125.3	124.6	125.3	126.5
75°	105.8	105.2	104.6	104.6
77.5°	85.7	85.1	83.9	85.1
80°	66.9	66.3	65.7	65.7
82.5°	47.4	48.0	47.4	47.4
85°	31.0	31.6	31.0	30.4
87.5°	15.8	16.4	15.2	14.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243265  
 CATALOG NUMBER: S122RDRP-H865D840-X4F0-XX-UDD-A-W

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.23	18.69	17.60	19.00	19.32	23.56	25.02	23.93	25.33	25.65
	3H	18.40	19.71	18.78	20.04	20.40	24.81	26.12	25.19	26.45	26.81
	4H	18.86	20.08	19.26	20.43	20.81	25.25	26.47	25.65	26.82	27.20
	6H	19.19	20.32	19.61	20.69	21.08	25.54	26.67	25.96	27.04	27.43
	8H	19.29	20.36	19.72	20.75	21.16	25.63	26.70	26.05	27.09	27.49
	12H	19.34	20.37	19.78	20.75	21.18	25.67	26.70	26.11	27.08	27.51
4H	2H	17.96	19.18	18.36	19.53	19.91	23.54	24.76	23.95	25.11	25.49
	3H	19.28	20.29	19.70	20.70	21.10	24.93	25.94	25.34	26.34	26.74
	4H	19.84	20.74	20.27	21.16	21.60	25.46	26.37	25.89	26.78	27.22
	6H	20.27	21.05	20.73	21.50	21.96	25.88	26.66	26.34	27.11	27.57
	8H	20.40	21.13	20.86	21.58	22.05	26.01	26.74	26.47	27.19	27.66
	12H	20.48	21.13	20.96	21.61	22.09	26.10	26.76	26.58	27.24	27.71
8H	4H	20.18	20.92	20.65	21.36	21.83	25.46	26.19	25.92	26.64	27.11
	6H	20.71	21.31	21.20	21.80	22.28	25.92	26.53	26.42	27.02	27.50
	8H	20.89	21.43	21.41	21.95	22.43	26.09	26.64	26.61	27.15	27.64
	12H	21.02	21.50	21.53	22.00	22.56	26.24	26.71	26.75	27.21	27.77
12H	4H	20.22	20.88	20.71	21.36	21.83	25.44	26.09	25.92	26.57	27.04
	6H	20.77	21.31	21.28	21.82	22.31	25.90	26.44	26.42	26.96	27.44
	8H	21.00	21.48	21.51	21.97	22.54	26.10	26.58	26.62	27.08	27.64